

包层光剥除器 (CPS)



1.0 Description

包层光剥除器 Cladding Power Stripper (CPS)是为高功率光纤激光器设计的。在高功率光纤激光器和光纤放大器中，泵浦光与信号光在掺杂光纤中经过能量交换，泵浦减弱，信号增强，泵浦能量无法全部被吸收，总会有所残留，并在双包层光纤的外包层中传输（如793nm, 808nm, 915nm, 940nm, 976nm等），这部分能量往往是不需要的，还对后续器件造成伤害。用CPS可以有效“剥除”包层内的残余泵浦甚至是内包层返回的反射信号光，同时保持信号功率和光束质量(m2)的最小且不影响纤芯信号。

2.0 Optical and Operation Specifications

Item	Specifications	Min.	Typ.	Max.	Unit	Notes
2.01	Laser wavelength	700	-	2000	nm	
2.02	Polarization	Random				PM Customizable
2.03	Operation regime	CW				
2.04	Signal insertion loss		0.05		dB	
2.05	Pigtail length		1.0		m	Default
2.06	Cladding power stripping ratio		20		dB	
2.07	Handling power		200	350	W	Bottom conduction cooling
			600	2000	W	Direct water cooling
2.08	Operating temperature range	0		+75	°C	
2.09	Storage temperature	-40		+85	°C	

3.0 Mechanical specifications and drawings

Item	Specifications	Unit	Notes
3.01	Module's Dimensions	150*15*12	mm Bottom conduction cooling

4.0 Ordering information

CNCPS-①-②-③/③-④		
①: Fiber type	②: Power Handling	③/③: Input/Output fiber length
D03 - 10/130 DCF, 0.075NA D07 - 25/250 DCF, 0.06NA D08 - 30/250 DCF, 0.06NA D11 - 25/300 DCF, 0.06NA D12 - 20/400 DCF, 0.06NA D15 - 50/400 NA:0.12/0.45 T02 - 100/120/360, NA:0.22/0.46 ect.	200 – 200W 600 – 600W 1KW – 1000W 2KW – 2000W etc.	1.5 – 1.5m 2.0 – 2.0m Default 3.0 – 3.0m ect.
④: Package type		
A1 = Aluminum package 150*15*12mm G1 = Glass tube package φ6*120mm = Glass tube package φ3*110mm S – Specify		G2
For example: CNCPS-D12-200-2.0/2.0-G1		